

General

Title

Chronic obstructive pulmonary disease (COPD): proportion of outpatients with COPD for whom the FEV₁ as a percentage of predicted is measured and recorded at least once a year.

Source(s)

Indicators in the Danish registry for chronic obstructive pulmonary disease (DrCOPD). Aarhus (DK): Competence Centre for Clinical Quality and Health Informatics West; 2013 Jan 2. 7 p.

Measure Domain

Primary Measure Domain

Clinical Quality Measures: Process

Secondary Measure Domain

Does not apply to this measure

Brief Abstract

Description

This measure is used to assess the proportion of outpatients with chronic obstructive pulmonary disease (COPD) for whom the forced expiratory volume within the first second of expiration (FEV₁) as a percentage of predicted is measured and recorded at least once a year.

Rationale

Scientific studies have shown that regular measurement of forced expiratory volume within the first second of expiration (FEV₁) is an obligate factor during diagnosis, follow-up and evaluation of treatment effect in patients with chronic obstructive pulmonary disease (COPD).

Evidence for Rationale

Primary Health Components

Chronic obstructive pulmonary disease (COPD); forced expiratory volume (FEV₁)

Denominator Description

Patients age 30 years and older who were seen at hospital outpatient clinics with the following primary diagnoses for chronic obstructive pulmonary disease (COPD) according to the Danish version of the International Classification of Diseases, Tenth Revision (ICD-10):

J44.X

OR

J96.X in combination with J44.X as a secondary diagnosis

See the related "Denominator Inclusions/Exclusions" field.

Numerator Description

Outpatients with chronic obstructive pulmonary disease (COPD) for whom the forced expiratory volume within the first second of expiration (FEV₁) as a percentage of predicted is measured and recorded at least once a year (see the related "Numerator Inclusions/Exclusions" field)

Evidence Supporting the Measure

Type of Evidence Supporting the Criterion of Quality for the Measure

A formal consensus procedure, involving experts in relevant clinical, methodological, public health and organizational sciences

Additional Information Supporting Need for the Measure

Unspecified

Extent of Measure Testing

Unspecified

State of Use of the Measure

State of Use

Current routine use

Current Use

not defined yet

Application of the Measure in its Current Use

Measurement Setting

Hospital Outpatient

Professionals Involved in Delivery of Health Services

not defined yet

Least Aggregated Level of Services Delivery Addressed

Single Health Care Delivery or Public Health Organizations

Statement of Acceptable Minimum Sample Size

Unspecified

Target Population Age

Age greater than or equal to 30 years

Target Population Gender

Either male or female

National Strategy for Quality Improvement in Health Care

National Quality Strategy Aim

Better Care

National Quality Strategy Priority

Prevention and Treatment of Leading Causes of Mortality

Institute of Medicine (IOM) National Health Care Quality Report Categories

IOM Care Need

IOM Care Need

Living with Illness

IOM Domain

Effectiveness

Data Collection for the Measure

Case Finding Period

The monitored calendar year

Denominator Sampling Frame

Patients associated with provider

Denominator (Index) Event or Characteristic

Clinical Condition

Encounter

Patient/Individual (Consumer) Characteristic

Denominator Time Window

not defined yet

Denominator Inclusions/Exclusions

Inclusions

Patients age 30 years and older who were seen at hospital outpatient clinics with the following primary diagnoses for chronic obstructive pulmonary disease (COPD) according to the Danish version of the International Classification of Diseases, Tenth Revision (ICD-10):

J44.X

OR

J96.X in combination with J44.X as a secondary diagnosis

Note: Based on patients who (according to their civil registration number) can be identified in the Danish National Patient Registry (DNPR) as having a "hospital outpatient course" with COPD, i.e., a start date, one or more outpatient visit dates in the monitored calendar year, and eventually an end date in the DNPR.

Exclusions

Outpatient courses consisting of a single contact only ("one-day courses") are excluded.

Exclusions/Exceptions

not defined yet

Numerator Inclusions/Exclusions

Inclusions

Outpatients with chronic obstructive pulmonary disease (COPD) for whom the forced expiratory volume within the first second of expiration (FEV₁) as a percentage of predicted is measured and recorded at least once a year*

*Persons who have been assigned at least one procedure code ZZ4139 and value code VPH0000 through VPH0125 in the Danish National Patient Registry (DNPR) within the last 12 months of the last day of the monitored calendar period.

Exclusions

Unspecified

Numerator Search Strategy

Fixed time period or point in time

Data Source

Administrative clinical data

Paper medical record

Registry data

Type of Health State

Does not apply to this measure

Instruments Used and/or Associated with the Measure

Unspecified

Computation of the Measure

Measure Specifies Disaggregation

Does not apply to this measure

Scoring

Rate/Proportion

Interpretation of Score

Desired value is a higher score

Allowance for Patient or Population Factors

not defined yet

Standard of Comparison

not defined yet

Prescriptive Standard

Greater than or equal to 90%

Evidence for Prescriptive Standard

Indicators in the Danish registry for chronic obstructive pulmonary disease (DrCOPD). Aarhus (DK): Competence Centre for Clinical Quality and Health Informatics West; 2013 Jan 2. 7 p.

Identifying Information

Original Title

Proportion of outpatients with COPD for whom the FEV₁ as percentage of predicted is measured and recorded at least once a year.

Measure Collection Name

The Danish Clinical Registers

Measure Set Name

Clinical Indicators for the Danish registry for Chronic Obstructive Pulmonary Disease (DrCOPD)

Submitter

The Danish registry for Chronic Obstructive Pulmonary Disease - National Government Agency [Non-U.S.]

Developer

Competence Centre for Clinical Quality and Health Informatics West - International Agency

The Danish registry for Chronic Obstructive Pulmonary Disease - National Government Agency [Non-U.S.]

Funding Source(s)

Danish Regions

Composition of the Group that Developed the Measure

The steering committee for The Danish registry for Chronic Pulmonary Obstructive Disease (DrCOPD)

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Financial Disclosures/Other Potential Conflicts of Interest

Unspecified

Adaptation

This measure was not adapted from another source.

Date of Most Current Version in NQMC

2013 Jan

Measure Maintenance

Every year in connection with the national clinical audit, there may be isolated updates of the indicator sets (e.g., addition of new indicators or new supplementary variables). Every second or third year, there

will be a more formalised review with a proper revision of the indicator set, which will also include a complete update of both documentalist report and other documents related to the indicator set.

Date of Next Anticipated Revision

2016 Sep

Measure Status

This is the current release of the measure.

This measure updates a previous version: Indicators in The Danish National Indicator Project: COPD. Denmark: The Danish National Indicator Project (DNIP); 2010 Nov 2. 7 p.

The measure developer reaffirmed the currency of this measure in October 2015.

Measure Availability

Source not available electronically.

For more information, visit [The Competence Centre for Clinical Quality and Health Informatics West Web site](#) (in Danish).

Companion Documents

The following is available:

Manual for the development of disease-specific quality indicators, standards and prognostic factors under the Danish National Indicator Project. Version 3.0. Aarhus N: The Danish National Indicator Project (DNIP); 2009 Jun. 31 p.

NQMC Status

This NQMC summary was completed by ECRI Institute on October 19, 2011. The information was verified by the measure developer on January 10, 2012.

This NQMC summary was updated by ECRI Institute on August 5, 2013. The information was verified by the measure developer on October 1, 2013.

The information was reaffirmed by the measure developer on October 30, 2015.

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Production

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